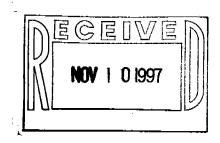


ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

November 4, 1997

Ms. Sharon Cihak Guilford County Department of Public Health Environmental Health Division 301 North Eugene Street Greensboro, North Carolina 27401



Subject:

**Underground Storage Tank Closure Report** 

NOAA - National Weather Service

6425 Airport Parkway

Greensboro, Guilford County, North Carolina

LAW Project 30459-7-0955

Dear Ms. Cihak:

On behalf of the National Weather Service and A & D Environmental and Industrial Services, Inc., Law Engineering and Environmental Services, Inc. (LAW) is submitting this Underground Storage Tank Closure Report for the subject site. Included in this report is a description of the field activities, the results obtained, and our conclusions and recommendations.

This closure report has been prepared in general accordance with the Underground Storage Tank Closure Report guidelines presented in the GW/UST-12 form dated October 1994. We appreciate your consideration and cooperation in the submission of this report.

Sincerely,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

James J. Gonsiewski, L.G.

Project Geologist

Licensed NC 1371

Jeffrey L. Gerlock, L.G. Principal Geologist

Licensed NC 1141

Attachments

cc:

Mr. Jerry Stanley

#### TABLE OF CONTENTS

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I.	GENERAL INFORMATION	1
II.	CLOSURE PROCEDURES	2
Ш.	SITE INVESTIGATION	3
IV.	BACKFILLING OPERATIONS	4
V.		IONS5
FIGUI	•	-
	Figure 1 - Site Location Map Figure 2 - Site Plan	

#### **PHOTOGRAPHS**

#### **APPENDIX**

Form GW/UST-3
Form GW/UST-2
Tank Disposal Manifest
Laboratory Data and Chain of Custody Record

#### I. GENERAL INFORMATION

The subject site is the NOAA - National Weather Service building at 6425 Airport Parkway in Greensboro, Guilford County, North Carolina (Figure 1). Information regarding site ownership, facility information, project contacts, underground storage tank (UST) information, and characteristics of the site is presented below:

#### A. Ownership of UST

NOAA - National Weather Service 6425 Airport Parkway Greensboro, North Carolina 28202 910-668-9269

#### **B.** Facility Information

NOAA - National Weather Service 6425 Airport Parkway Greensboro, North Carolina 28202 910-668-9269

#### C. Contacts

Primary Contact:

Mr. Johnny Smith

NOAA - National Weather Service

6425 Airport Parkway

Greensboro, North Carolina 28202

910-668-9269

Closure Contractors:

A&D Environmental and Industrial Services

2718 Uwharrie Road

High Point, North Carolina 27263

(910) 434-7750

**Primary Consultant:** 

Law Engineering and Environmental Services, Inc. 7347-F West Friendly Avenue

Greensboro, North Carolina 27410 (910) 294-4221

Laboratory:

Law Environmental National Laboratories

3355 McLemore Drive

Pensacola, Florida (904) 857-0606

North Carolina Certification Number 425

#### D. UST Information

Tank Number	Installation Date	Size	Tank Dimensions	Last Contents	Previous Contents
1	1983	500 gallons	48 in x 63 in.	Diesel	None

#### E. Site Characteristics

The subject site is the NOAA - National Weather Service building located at 6425 Airport Parkway in Greensboro, Guilford County, North Carolina (Figure 1). The site is located in a commercial area of Greensboro, North Carolina adjacent to the Piedmont-Triad International Airport. The 500 gallon UST was used to store diesel for use in the emergency generator on the site. There are no confirmed past releases from the on-site UST. A 500 gallon aboveground storage tank (AST) system has been installed at the site (Figure 2).

No water supply wells were observed on site and the area is served by the municipal water supply. The nearest surface water feature is an unnamed tributary of Brush Creek located approximately 900 feet northwest of the building (Figure 1).

The site is located in the Piedmont Physiographic Province. The soil and rock which underlie the site include metamorphosed quartz diorite of the Carolina Slate Belt (North Carolina Geological Survey, 1985). Local precipitation is the source of practically all of the ground water in the surficial aquifer in this area. A portion of the precipitation infiltrates into the ground and moves under the influence of gravity to the water table. After the water has reached the water table, the direction of movement is generally parallel to the hydraulic gradient. In the Piedmont Physiographic Province, the slope of the water table under static conditions (no pumping or recharge interference) approximates the topography of the area. Thus, the movement of ground water will be approximately in the direction of the topographic slope. The movement of ground water results in discharge to streams, lakes, or springs where the ground water intersects the topographic lows occupied by these water bodies. Based on the topographic map of the site vicinity, ground water at the site appears to flow to the north and northwest (Figure 1).

#### II. CLOSURE PROCEDURES

#### **UST Removal Activities**

The Guilford County Department of Public Health and the Greensboro Fire Department were notified by telephone prior to the UST removal operations. Additionally, a GW/UST-3 form was filed with the Guilford County Department of Public Health in Greensboro on October 10, 1997.

A copy of this form is included in the Appendix. Utilities at the site were located by National Weather Service personnel prior to UST removal activities. On October 14, 1997, UST removal activities were performed by A&D Environmental and Industrial Services, Inc. (A&D) of Archdale, North Carolina using a backhoe. The former location of the UST and the fuel line from the UST to the building are shown on Figure 2.

A&D removed approximately 250 gallons of fuel from the UST and the associated piping on October 14, 1997. On October 14, 1997, A&D removed the UST (see Photograph 1). The associated piping was drained and capped. The UST was in good condition with no pitting or holes visible (see Photograph 2). The UST was transported to A&D for disposal. A copy of the tank disposal manifest is included in the Appendix.

The top of the UST was approximately two feet below the ground surface. The UST was secured with straps attached to a concrete pad beneath the UST. The final excavation for the UST was approximately 9 feet long, 8 feet wide and 7 feet deep. The soil in the UST excavation consisted of reddish to tan brown sandy silt to an approximate depth of 7 feet below grade. No petroleum hydrocarbon odor or staining was observed in the soil at the base of the excavation. No soil was removed from the excavation. The excavation was backfilled with clean fill material as discussed in Section VI.

LAW personnel collected four soil samples from beneath the former location of the UST (CS-1 through CS-4) on each side of the concrete pad and one sample from beneath the fuel line (CS-5) on October 14, 1997 (Figure 2). The soil samples were collected approximately one foot below the depth of the concrete pad and fuel line at depths ranging from approximately 3 (fuel line) to 8 (UST) feet below grade. Details of the field procedures are discussed below.

#### III. SITE INVESTIGATION

#### Sample Collection Procedures

The soil samples collected from the floor of the excavation and beneath the fuel line during the UST removal activities were manually collected from the bucket of the backhoe using new, disposable vinyl gloves. Each soil sample was immediately placed into a plastic zip-lock bag.

A representative portion of each soil sample placed into the plastic zip-lock bags were placed in a warm location. Approximately 10 minutes after the time of collection, the bag was opened slightly and the probe of a Century 128 Organic Vapor Analyzer (OVA) was inserted. The meter of the OVA was monitored and the reading recorded. No organic vapors were detected in the samples. Since no odors or organic vapors were detected in the soil samples collected around the concrete pad, the samples from the ends of the pad (CS-2 and CS-4) along with the sample collected from beneath the fuel line (CS-5) were selected for laboratory analysis.

Each soil sample collected for laboratory analysis was placed into new 2-ounce and 8-ounce capacity clean glass containers. After being filled, each sample container was labeled with the project name and number, the time and date of sample collection, the analyses to be performed, and the absence or presence of preservative. The filled sample containers were placed into a cooler. Plastic bags containing ice were packed around the sample containers in the cooler to maintain the samples at approximately 4° Centigrade. The samples were shipped to Law Environmental National Labs (LENL) in Pensacola, Florida for analysis for volatile and semi-volatile total petroleum hydrocarbons (TPH) using EPA Methods 5030/8015M and 3550/8015M, respectively. The Chain of Custody was maintained as documented in the Appendix.

#### Laboratory Analytical Results

Laboratory analysis of the soil samples collected from beneath the UST and fuel line did not detect volatile or semi-volatile TPH above the State of North Carolina action levels of 10 parts per million (ppm) for volatile TPH and 40 ppm for semi-volatile TPH. The soil analytical results are presented on Figure 2. Laboratory test data sheets are included in the Appendix.

#### IV. BACKFILLING OPERATIONS

On October 14, 1997 backfilling was initiated. The backfill material consisted of soil encountered during the UST removal activities and clean backfill from A-1 Sandrock in Greensboro. The backfill was compacted with the bucket of the backhoe.

#### V. CONCLUSIONS AND RECOMMENDATIONS

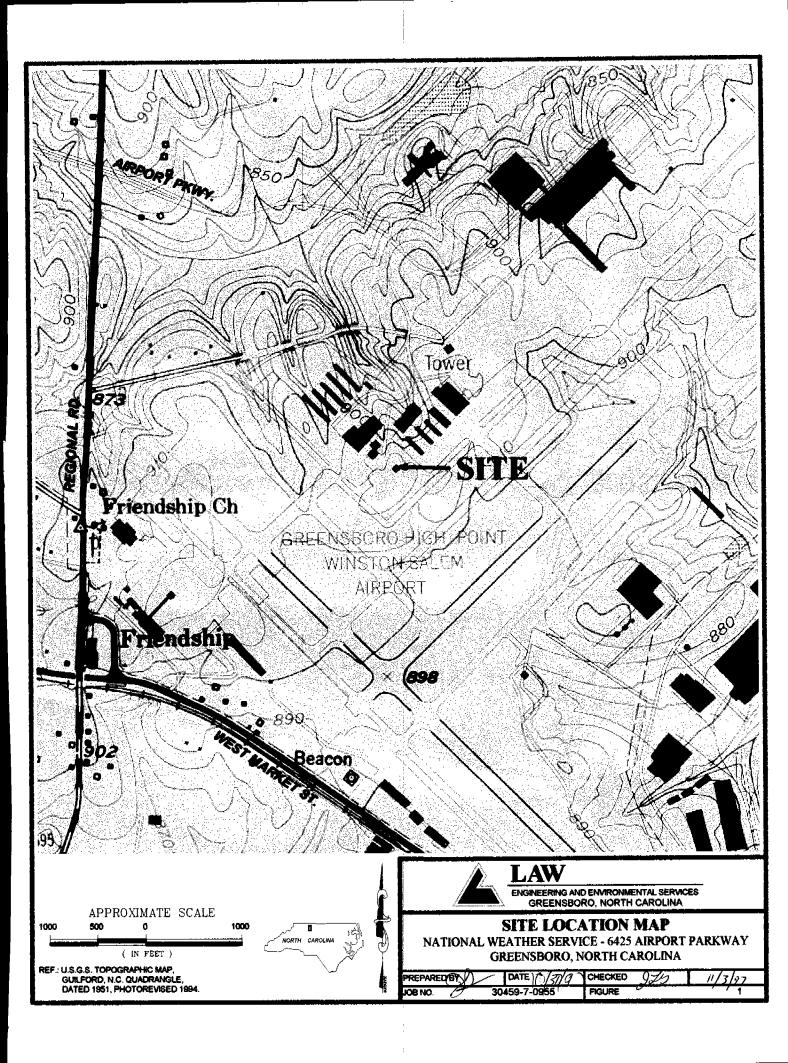
Laboratory analysis of soil samples collected from beneath the former on-site UST did not detect volatile or semi-volatile TPH above the State of North Carolina action levels. Based on LAW's field activities, it does not appear that a release has occurred from the former on-site UST, therefore, we do not recommend further assessment at this time. We recommend that this report be presented to the Guilford County Department of Public Health in Greensboro, North Carolina for issuance of a clean closure letter for this site.

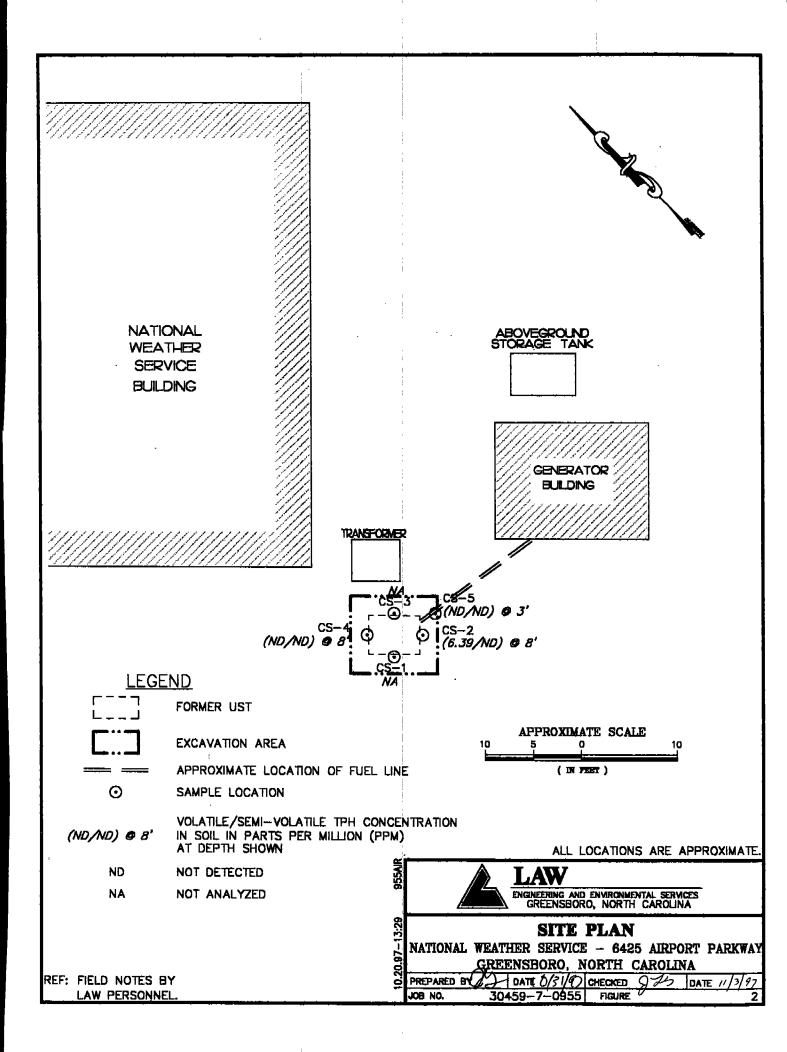
The activities and evaluative approaches used in this assessment are consistent with those normally employed in assessment projects of this type. Our evaluation of site conditions has been based on our understanding of the project information and the data obtained during our field activities.

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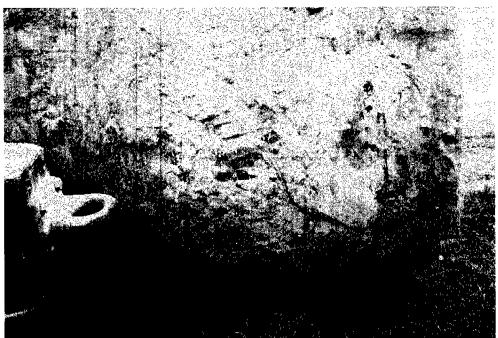




**RECTOGRAPHS** 



Photograph 1: View of UST during removal.



Photograph 2: Closeup of UST.

National Weather Service 6425 Airport Parkway Greensboro, North Carolina 30459-7-0955





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INSTRUC Complete and return five (5) working day	CTIONS s prior to closure or c	hange-in-s	service.	
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Complete and return within	(30) day	s followii	ng comp	letion of	site inves	tigation.	
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Owner Name: NOAA National Weather Serv Corporation, Individual, Public Agency, or Other Entity)	ice_	.   _			NOAA	<u>Natio</u>	nal WeatherService
Street Address: 6425 Airport Parkway		-   -	(or Com Facilit		f available)	: 0-0	10697
County: Guilford		. [ _	Street	Addres	s 6425	Airp	ort Parkway
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Telephone Number: ( 910 ) 668-9269		-   -	Telepi	none Nu	mber: (_9		668-9269
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Name: John Smith Job Title:			•	ther	Serv	i ce	Tel. No.: 910-668-9269
Closure Contractor: A & D Environmental Address2		1		•	•		
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							seal of the P.E. or L.G.
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Clean and inspect tank.  Remove drop tube, fill pipe, gauge pipe, vapor recovery tank of	connection	ons,		i Sol	id inert ma	terial used	I - specify:
submersible pumps and other tank fixtures.  Cap or plug all lines except the vent and fill lines.				MOVA			
Purge tank of all product & flammable vapors.  Cut one or more large holes in the tanks.			_		eate vent h bei tank.	ole.	
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Date of Change-in-Service:		1		_	High	Point	
VIII. C	Certifica	ation (R	ead an	d Sign	)		· · · · · · · · · · · · · · · · · · ·
I certify under penalty of law that I have personally exam	ined ar	nd am f	amiliar	with th	ne inform	nation su	ubmitted in this and all attached
documents, and that based on my inquiry of those individual submitted information is true, accurate, and complete.	duals in	nmedia	tely re	sponsi	ble for o	btaining	the information, I believe that the
Print name and official title of owner or owner's authorized representative	/ė	<del></del>	Signa	iture	, #	<u> </u>	Date Signed
James J. Gonsiewski, Project Geo		<u>,</u>  (	5	 	) QL	Gnsi	ender 10/24/17
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# **MATERIAL MANIFEST**

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## **Environmental and Industrial Services**

P. O. Box 484 • High Point, NC • Phone (910) 434-7750 • FAX (910) 434-7752

### TANK DISPOSAL MANIFEST

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	Recycling Facility: 1) H	-citia Wrocking	$a_{ ho}$
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		UNI TIUU	10/25/71
	PrintedTyped Name	Signature	MonthiDayiYear



October 22, 1997

Mr. Jim Gonsiewski Law Eng. & Env. Svcs., Inc. 7347-F West Friendly Avenue Greensboro, NC 27410

Subject: Chemical Analysis of Samples Received on 10/15/97 NOAA, Project No. 30459-7-0955.916

Dear Mr. Gonsiewski:

Law Engineering and Environmental Services, Inc., National Laboratories has completed its analysis of your samples and reports the results on the following pages. These results relate only to the contents of the samples as submitted.

If further assistance is needed, please feel free to contact me at (850) 969-6135.

Sincerely,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC. NATIONAL LABORATORIES

Kelli Silvia

Project Manager

Enclosures:

Data Report

li A. Selvia

Invoice

### LAW ENVIRONMENTAL NATIONAL LABORATORIES

#### TEST DATA REPORT

10/22/97

Station ID:

Lab ID:

Collector:

--- Project Information ---

Mr. James Gonsiewski

Law Eng & Envir Services, Inc.

CS-2

AB32760

J. GONSIEWSKI

7347-F West Friendly Ave

Greensboro, NC 27410

--- Sample Information ---

Date Sampled:

Project Name:

NOAA 30459-7-0955.916

10/14/97

NOAA

Time Sampled:

Page 1

09:30

Log In Date:

10/15/97

Log In Time:

14:18

--- Test Information ---

**Analysis** 

Parameter	Units	Method	Rpt Lim	Result	Date	Tech
622-8015M TPH VOA S mg/Kg	mg/Kg	8015M		_TITLE_	10/16/97	AG
Petroleum Hydrocarbons (Gasoline)	mg/Kg	8015M	0.126	6.39	10/16/97	AG
623-Tot Pet Hydro Prep S		8015M		Done	10/17/97	LB
621-8015M TPH SVOA S mg/Kg	mg/Kg	8015M		_TITLE_	10/20/97	GT
Petroleum Hydrocarbon (Diesel)	mg/Kg	8015M	8.48	Not Det	10/20/97	GT

Remarks:

Signed:

For Keith R Greene

## LAW ENVIRONMENTAL NATIONAL LABORATORIES TEST DATA REPORT

10/22/97

--- Project Information ---

Mr. James Gonsiewski

110ject information ---

Law Eng & Envir Services, Inc.

Project Name:

Page 1

NOAA

7347-F West Friendly Ave

......

NOAA 30459-7-0955.916

Greensboro, NC 27410

--- Sample Information ---

Date Sampled:

10/14/97

Station ID:

CS-4

Time Sampled:

09:35

Lab ID:

AB32761

Log In Date:

10/15/97

Collector:

J. GONSIEWSKI

Log In Time:

14:18

--- Test Information +--

Analysis

Parameter	<u>Units</u>	Method	Rpt Lim	Result	Date	Tech
622-8015M TPH VOA S mg/Kg	mg/Kg	8015M		_TITLE	10/16/97	AG
Petroleum Hydrocarbons (Gasoline)	mg/Kg	8015M	0.122	Not Det	10/16/97	AG
623-Tot Pet Hydro Prep S		8015M		Done	10/17/97	LB
621-8015M TPH SVOA'S mg/Kg	mg/Kg	8015M		_TITLE_	10/20/97	GT
Petroleum Hydrocarbon (Diesel)	mg/Kg	8015M	8.16	Not Det	10/20/97	GT

Remarks:

Signed:

Keith R Greene

## LAW ENVIRONMENTAL NATIONAL LABORATORIES TEST DATA REPORT

10/22/97

--- Project Information ---

Mr. James Gonsiewski

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Law Eng & Envir Services, Inc.

Project Name: NOAA

7347-F West Friendly Ave

NOAA 30459-7-0955.916

Greensboro, NC 27410

--- Sample Information ---

Date Sampled:

Page 1

10/14/97

Station ID:

Collector:

CS-5

Time Sampled:

09:45

Lab ID: AB32762

Log In Date:

10/15/97

J. GONSIEWSKI

Log In Time:

14:18

--- Test Information ---

**Analysis** 

Parameter	Units	Method	Rpt Lim	Result	Date	Tech
622-8015M TPH VOA S mg/Kg	mg/Kg	8015M	· <del>-</del>	_TITLE_	10/16/97	AG
Petroleum Hydrocarbons (Gasoline)	mg/Kg	8015M	0.123	Not Det	10/16/97	AG
623-Tot Pet Hydro Prep S		8015M		Done	10/17/97	LB
621-8015M TPH SVOA S mg/Kg	mg/Kg	8015M		_TITLE_	10/21/97	GT
Petroleum Hydrocarbon (Diesel)	mg/Kg	8015M	8.22	Not Det	10/21/97	GT

Remarks:

Signed:

Foパ Keith R Greene

### LAW ENVIRONMENTAL NATIONAL LABORATORIES

**TEST DATA REPORT** 

10/22/97

Station ID:

Lab ID:

Collector:

Mr. James Gonsiewski

--- Project Information ---

Law Eng & Envir Services, Inc.

TRIP BLANK

J. GONSIEWSKI

AB32763

7347-F West Friendly Ave

Greensboro, NC 27410

Page 1

Project Name: NOAA

NOAA 30459-7-0955.916

--- Sample Information ---

Date Sampled:

10/14/97

Time Sampled:

00:00

Log In Date:

10/15/97

Log In Time:

14:18

--- Test Information ---

**Analysis** 

<u>Parameter</u>	Units	Method	Rpt Lim	Result	Date_	Tech
622-8015M TPH VOA W mg/L	mg/L	8015M	. <del>-</del>	_TITLE_	10/16/97	AG
Petroleum Hydrocarbons (Gasoline)	mg/L	8015M	0.100	Not Det	10/16/97	AG

Remarks:

Keith R Greene

SURFACE WATER - SW NON-AQUEOUS - NA	SURFACE NON-AQL	SLUDGE - SL			
DRINKING WATER - DW HAZARDOUS WASTE - HW	ELL - MW	RCRA MONITOBING WI			
NPDES DISCHARGE - ND	, !	RECOVERY WELL - RW		3	 
<b>6</b> °C 50	"King Plank 6		YELLOW COPY RETAINED BY LABORATORY.	PINK COPY RETAINED BY SAMPLERS. YELLOW COPY RET	REMARKS
1,00,1choi		(SIGNATURE)		SINIAL AND V	DISTRIBUTION
SATE TIME	Son Man	יורנות סיפורה סי		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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462000					
12 23 21/2	4		<u></u>	150 654	04,150 2
0000000	6		1	1 SO CS-4	28.32
Jun 200			<del>                                     </del>	1 80 CS.J	26,70
LENI LAB NO.	20, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1	\$ 10 0 0 10 00 10	100 00 00 00 00 00 00 00 00 00 00 00 00	SAMPLE STATION DESCRIPTION	TIME
		1005 A. T. C.		511499>	SAMPLING DATE
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			7.	A A A A A A A A A A A A A A A A A A A	PROJECT NAME
de Char	SO Thopart Van	SINEEL AUGHESS: (O S	NPOES NUMBER SIT		
yeather soving	7	_	NO	FENSACOLA, FLORIDA 32514 (904) 857-0606	
18088	,		ON ONE	3355 MCLEMORE DRIVE	
		r necond		ENVIOLIMENTAL OFFICE MA	

PROJECT NAME: NO AA

ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

PROJECT NO. 30459 -) .0 \$55 PHASE NO.

(INCURS RUSH FEE)

LENL QUOTE #\_

TASK NO.:

RUSH

HC LAB TAT: (1 WK)

COC NO.: 18(

\_ TAT: (2WK)\_ PROJECT MANAGER:

DISSOLVED

TOTAL

SAMPLE I.D.:

	AA-GF		7041	7060		7091	7131		7191	7201		7421			AA Cold Vapor	
	ICP/FLAME	6010	6010	6010	6010	6010/7090	6010/7130	6010	6010/7190	6010	6010/7210	6010/7420	6010	6010/7480	7470/7471	6010
METALS	ELEMENT	ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	LEAD	MAGNESIUM	MANGANESE	MERCURY	MOLYBDENUM

METALS			GC/MS
ELEMENT	ICP/FLAME	AA-GF	VOLATILE ORGANICS
ALUMINUM	6010		VOLATILE ORGANICS
ANTIMONY	6010	7041	BASE NEUTRAL EXTRA
ARSENIC	6010	7060	ACID EXTRACTABLES
BARIUM	6010		
BERYLLIUM	6010/7090	7091	39
CADMIUM	6010/7130	7131	HALOGENATED VOL
CALCIUM	6010		ABOMATIC VOLATILE
CHROMIUM	6010/7190	7191	HAI OGENATED & AB
COBALT	6010	7201	PHENDIS
соррея	6010/7210		PESTICIDES AND/OB
LEAD	6010/7420	7421	POLYNICI EAR ABON
MAGNESIUM	6010		HEBBICIDES 12 4.0 &
MANGANESE	6010/7480		ETHYLENE DIBBOMIC
MERCURY	7470/7471	AA Cold Vapor	
MOLYBDENUM	6010		
NICKEL	6010/7520	7521	RCRA HAZARDOUS V
POTASSIUM	6010		TCLP METALS
			( I ( ) ( ) ( ) ( ) ( )

 	Jest
6010/7950	ble upon requ
	EPA 200 Series available upon request
ZINC	EPA 200

7911

VANADIUM

TITANIUM

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GC/MS	WATER	SOIL
VOLATILE ORGANICS	8240/624	8240
VOLATILE ORGANICS	8260	8260
BASE NEUTRAL EXTRACTABLES	8270/625	8270
ACID EXTRACTABLES	8270/625	8270

29	WATER	SOIL
HALOGENATED VOLATILE ORGANICS	8010/601	8010
AROMATIC VOLATILE ORGANICS	8020/602	8020
HALOGENATED & AROMATIC VOLATILE	8021	8021
PHENOLS	8040/604	8040
PESTICIDES AND/OR PCB'S	809/0808	
POLYNUCLEAR AROMATIC HYDROCARBONS	8100/610	8100
HERBICIDES (2,4-D & 2, 4, 5-TP)	8150	8150
ETHYLENE DIBROMIDE (EDB)	8011/504	8011

RCRA HAZARDOUS WASTE ID	
TCLP METALS	IGNITABILITY
TCLP HERBICIDES	CORROSIVITY (PH)
TCLP PESTICIDES	REACTIVITY (HCN, H2S)
TCLP ACID EXTRACTABLES	PAINT FILTER
TCLP BASE NEUTRALS EXTRACTABLES	
TCLP VOLATILES	

6010/7760 6010 6010 6010 0109 6010 6010 6010

SILVER

SELENIUM

SODIUM

INORGANICS (PLEASE COMPLETE BELOW):

7841

STRONTIUM

THALLIUM

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HYDROCARBON (UST)	WATER	SOIL
BTEX/MTBE/IPE	8020/602	8020
PETROLEUM HYDROCARBONS-IR	418.1	418.1
OIL & GREASE (GRAVIMETRIC)	9070	1206
PETROLEUM OIL & GREASE (W/SILICA GEL)	9070	9071

TPH-SEMI-VOLATILE	TPH-VOLATILE
CAL/DHS	CAL/DHS
(3550/80TS)	5030/8015
3550/SFB	5030/SFB
DRO-TENN/3550	GRO-TENN/5030
WTPH-D/WA	WTPH:G/WA
IOWA/3550	IOWA/5030
GAS/DIESEL-8015/VA	

REGULATORY GROUPS	
PRIORITY POLLUTANT SCAN	APPENDIX IX (FEDERAL)
PRIORITY POLLUTANT INORGANICS	APPENDIX IX (STATE OF GEORGIA)
PRIORITY POLLUTANT ORGANICS	APPENDIX I (MSWLF)
TARGET COMPOUND LIST (TCL)	APPENDIX II (MSWLF)
TARGET ANALYTE LIST (TAL)	

REMARKS:

COMPLETED BY DATE: